

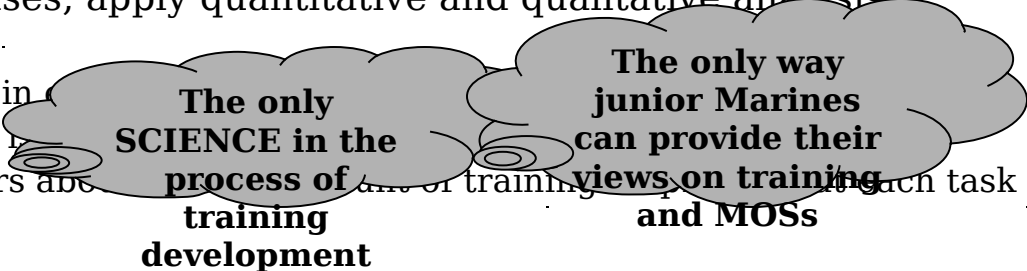
Training Development Section's Software/Hardware Courses of Action for Training and Occupational Analysis

Presentation for
ITMAB

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Background

- Front End Analysis Program - MCO 1200.15 - Purposes
 - Ascertain/validate job tasks for each OccFld
 - Validate MOS structure or recommend change
 - Empirically determine training required for Entry-level MOS training
 - Provide starting point for T&R Manual's individual training standards
 - Process
 - With OccFld Manager, develop task list
 - Survey statistically valid sample of job incumbents *and their supervisors* from OccFld population
 - All MOSs
 - All Grades
 - Compile survey responses, apply quantitative and qualitative analysis
 - FEA Report
 - Percent of population in
 - Grade at which a task is
 - Opinions of supervisors and
 - should receive
- 
- The only **SCIENCE** in the process of training development
- The only way junior Marines can provide their views on training and MOSs
- tasks

Current IT

- MS-Office Suite to create survey booklets
- NCS Pearson OpScan OMR Scanner and Bubblesheets used for survey responses
 - USMC only of its kind scanner ~ \$15K
 - Sample size ~ 300-900 respondents
 - 300-900 responses on each survey
 - Written responses framed by questions, limited number
- NCS Pearson ScanTools software to pattern bubblesheet marks into data framework
- Comprehensive Occupational Data Analysis Program (CODAP) used by USMC and USAF
 - Application developed by/for USAF
 - Used by USMC, Canadian Armed Forces
 - IBM RSC 6000 server with AIX Unix Operating System

Catalysts for Change

- Hardware/software failures
 - RSC 6000 hardware failure two years ago
 - Operating System failure this year
- Winds of Change for hardware/software purchases....NMCI and CIO mandates – lag time in acquiring approvals
- USAF migrated to Contractor-performed on-line surveys
 - No longer can provide technical assist with scanning to data files
- USCG abandoned CODAP, now using Contractor-performed surveys processed using SPSS
- Not all surveys require the crunching power of CODAP
- One-of-a-Kind Military billet for CODAP Programmer – No job prepares incumbent, no backup to incumbent

Issues

- Two Different Issues
 - Survey of Job Incumbents
 - Analysis of Data & Preparation of Reports
- “As-Is”
 - Survey of incumbents using bubblesheets
 - OPSCAN scanner builds text file or .dat file (?)
 - .dat file used by CODAP for statistical processing
 - CODAP provides requested reports
- “To-Be” Options talked about
 - Integrate with TIMS (TECOM Integrated Management System)
 - Stay with Air Force’s CODAP
 - Explore feasibility of using 3rd-Party software for on-line surveys
 - Explore feasibility of using contractors for surveys
 - Explore feasibility of using 3rd-Party software for statistical processing

Survey of Job Incumbents

- Bubble Sheets
 - Scan-Tools II Software purchased to create “forms”
 - Annual purchase of bubblesheets
 - One survey per job incumbent, and you know when you have enough or need more
 - Manual labor costs of assembly & disassembly, travel costs, mailing costs
 - Periodic software/hardware renewal costs
 - One person in USMC can scan and import data
- On-Line Survey
 - Either TDS-supported or Contractor-supported
 - 3rd-Party Software?
 - Avoid manual labor costs, travel costs, mailing costs
 - Requires construction of on-line survey
 - Requires tracking of survey responses
 - Requires some form of security – one response per job incumbent; know who has responded and who hasn't
 - Anonymity an issue?
 - Requires translation of survey data into a format for the processing software

Data Processing & Report Generation

- AIX Unix OS software renewal approved recently by G-6
- RSC 6000 hardware needs modernization within two years
- Air Force continues support for CODAP?
 - Discontinued bubblesheet survey w/ loss of support
 - USAF likely to abandon CODAP? **NO**
- What other statistical analysis tools could satisfy some of our needs?
 - SPSS?....MCU has SPSS and a server
 - What analysis tools are built into User software?
 - SAS?....M&RA is using as an analytical tool
 - What analysis tools are built into User software?
 - CODAP?....Cluster diagram is established and understood

GTB's Way Ahead

- Explore options for surveying
 - Sustain current bubblesheet technology and skillsets
 - » Gain & maintain ScanTools II software and training
 - » Maintain OMR scanner with vendor service contract as needed
 - Explore Contractor-performed, on-line surveys
 - » Data output suitable for CODAP processing?
 - » Data output suitable for SPSS (etc.) processing?
 - Explore GTB-performed, on-line surveys
 - » Data server requirements/Web server requirements
 - » Various COTS solutions for survey applications
 - » Remain attuned to TIMS development for potential options
 - Explore COTS statistical analysis options
 - » Receive SPSS vendors' proposal to fulfill GTB's needs (scheduled first meeting 30 Jan 2004)
 - » Purchase/study SPSS as ***augment*** to CODAP

GTB Asks G-6/ITMAB to...

- Recognize that TDS' hardware, software, processes are Service-level, one-of-a-kind
- Support requests for renewal purchases without delay
- Support requests for exploratory purchases
 - SPSS - User licenses
 - ScanTools - Developers License
- Offer ideas to be leveraged
 - SPSS software already owned within TECOM?
 - Server already owned within TECOM?
 - Web surveys supportable with current contract support?
 - Linkage to other systems to provide respondent security?